

COUNTRY Germany (Russian Zone)

SUBJECT Russian Order for Fuel Intake Regulator

DATE DISTR. 4 March 1946

NO. OF PAGES 2

PLACE
ACQUIREDNO. OF ENCLS.
(LISTED BELOW)

DATE

25X1A

SUPPLEMENT TO
REPORT NO.

25X1X

THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES WITHIN THE MEANING OF THE ESPIONAGE ACT OF U. S. C. 31 AND 32 AS AMENDED. ITS TRANSMISSION OR THE REVELATION OF ITS CONTENTS IN ANY MANNER TO AN UNAUTHORIZED PERSON IS PROHIBITED BY LAW. REPRODUCTION OF THIS FORM IS PROHIBITED. HOWEVER, INFORMATION CONTAINED IN BODY OF THE FORM MAY BE UTILIZED AS DEEMED NECESSARY BY THE RECEIVING AGENCY.

*Documentary

THIS IS UNEVALUATED INFORMATION FOR THE RESEARCH
USE OF TRAINED INTELLIGENCE ANALYSTS

SOURCE

25X1A

the Russisches Konstruktions-Büro 4 (SKTB-4) in Chemnitz requested that the Askania-Werke in Berlin-Friedenau design an automatic oil-air regulator to be used on furnaces. Following are the specifications and details on the use of the regulator:

1. Purpose of the regulator: The regulator is to regulate automatically the desired mixture of oil and air to be fed into a furnace.
2. Field of use: It is to be used in Martin furnaces, glass smelting furnaces, chemical industry, etc.
3. Which previously existing device is to be replaced? This is a new construction to be used for Martin furnaces.
4. Technical economic reason for the new design: The regulator is planned to facilitate automatic feeding of furnaces of the metal industry. It is to save fuel and air and make operation easier for the workers.
5. Technical data:

a. Maximum oil consumption:	1700 liters per hour of Masut
b. Temperature of the fuel	60.95°C
c. Maximum pressure of the fuel line	10 kg./cm ²
d. Maximum pressure of the air line	180 mm water column
e. Diameter of the fuel line	2 (dia)
f. Diameter of the air line	600mm
g. Maximum permissible deviation	2% of the fixed mixture
6. Operation: The regulator is to have gauges to indicate air and fuel consumption as well as a device to adjust the desired ratio of air and fuel.
7. Power for operation: Compressed air of two to ten atmospheres; the air is inducted with a pressure of up to 1:1 atmosphere, or water with a pressure of up to 10 m water column.
8. Special requirements: The regulator is to facilitate the adjustment of oil/air to a ratio of 1:4, with a calculation of the theoretical amounts at a ratio of 1:1.

25X1A

CLASSIFICATION

CONFIDENTIAL

Document No. 006

NO CHANGE in Class. ☐☐ DECLASSIFIED

Class. CONTROL TO: IS S (C)

DIA Form, 4 Apr 77

Approved For Release 2001/05/04 : CIA-RDP82-00457R001300480006-6

Date: 1978 2 By: 013

~~SECRET~~

~~CONFIDENTIAL~~
CENTRAL INTELLIGENCE AGENCY

- 2 -

25X1A

A change of the adjusted ratio must be possible without requiring the opening of the regulator.

It is desirable to combine the gauges for the air and oil consumption in the regulator.

The distance from the measuring point to the regulator should, if possible, not be more than 20m, and from the regulating device to the regulator not more than 50m.

~~CONFIDENTIAL~~

~~SECRET~~

25X1A

Approved For Release 2001/11/23 : CIA-RDP82-00457R001300480006-6

Approved For Release 2001/11/23 : CIA-RDP82-00457R001300480006-6